

Bragboard week 2 report.

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User System & Basic UI :-

Week 2 Progress Report with explanations, errors encountered, and debugging notes:

Week 2 Development Report

Tasks Completed

1. Basic Layout with Tailwind CSS

- **Setup:** Tailwind CSS was successfully integrated using PostCSS and configured in tailwind.config.js.
- **Components Built:**
 - Header with navigation links
 - Sidebar with department filters
 - Main content area with responsive grid
- **Responsive Design:**
 - Used Tailwind's breakpoint utilities (sm:, md:, lg:) for layout
 - Ensured layout adapts to different screen sizes

2. User Dashboard Display After Login

- **Authentication Flow:**
 - Implemented login using JWT tokens
 - Created protected route for /dashboard

- **Dashboard Features:**
 - Displays user name and department
 - Shows recent activity and department-specific data
- **Routing:**
 - Used React Router for navigation
 - Redirects unauthenticated users to /login

3. Department-Wise Scoping in Backend

- **Database Changes:**
 - Added department_id field to User and Resource models
- **API Updates:**
 - Modified endpoints to filter data by department_id
 - Added middleware to validate department access
- **Access Control:**
 - Users can only access resources belonging to their department.

3. Errors & Debugging

Tailwind CSS

- **Issue:** Layout broke on smaller screens.
 - **Fix:** Added flex-wrap and adjusted padding/margin with responsive classes.
- **Issue:** Sidebar overlapping content.
 - **Fix:** Used grid layout and min-h-screen to structure page properly.

Dashboard Routing

- **Issue:** Dashboard was accessible without login.
 - **Fix:** Added route guard using JWT validation middleware.

Backend Scoping

- **Issue:** Users could access other departments' data.
 - **Fix:** Added department check in controller logic:

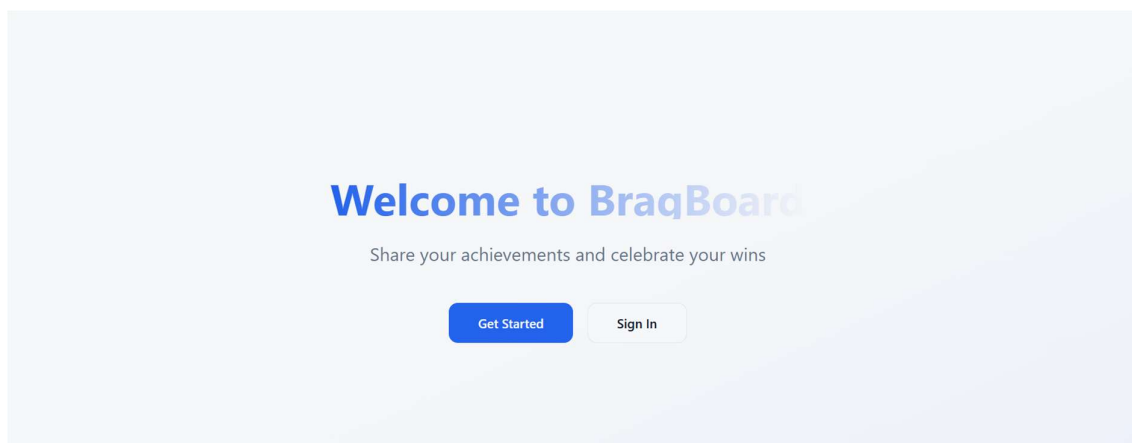
```
if (req.user.department_id !== resource.department_id) {  
  return res.status(403).json({ error: "Access denied" });  
}
```

4. Testing

- Manual testing of layout across Chrome, Firefox, and edge..etc
- Verified login flow and dashboard rendering
- API tested with Postman for department filtering.

Pictures of sign in, sign up, dashboard all in bellow:-

Main page:-



Signup page:-

Sign Up
Create a new account.

Full Name
John Doe

Role
user

Department
general

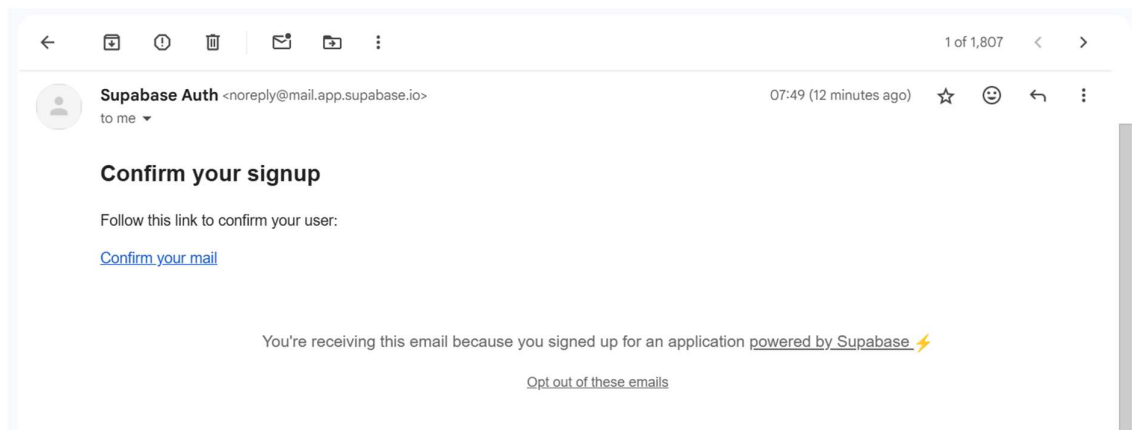
Email
gridharchitrala@gmail.com

Password
.....

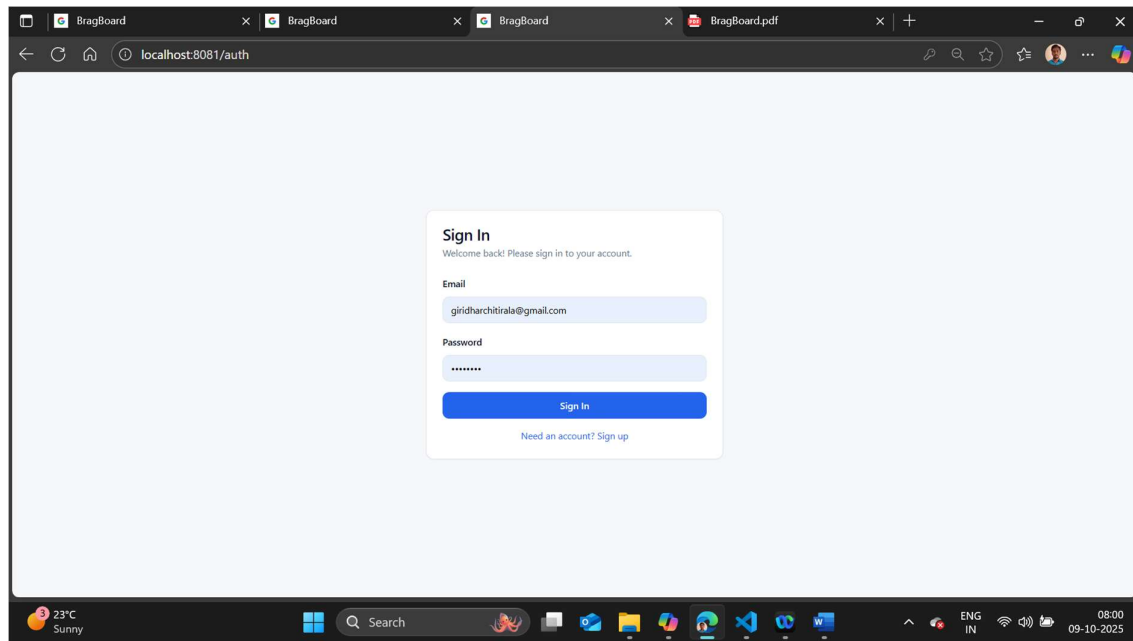
Sign Up

Already have an account? Sign in

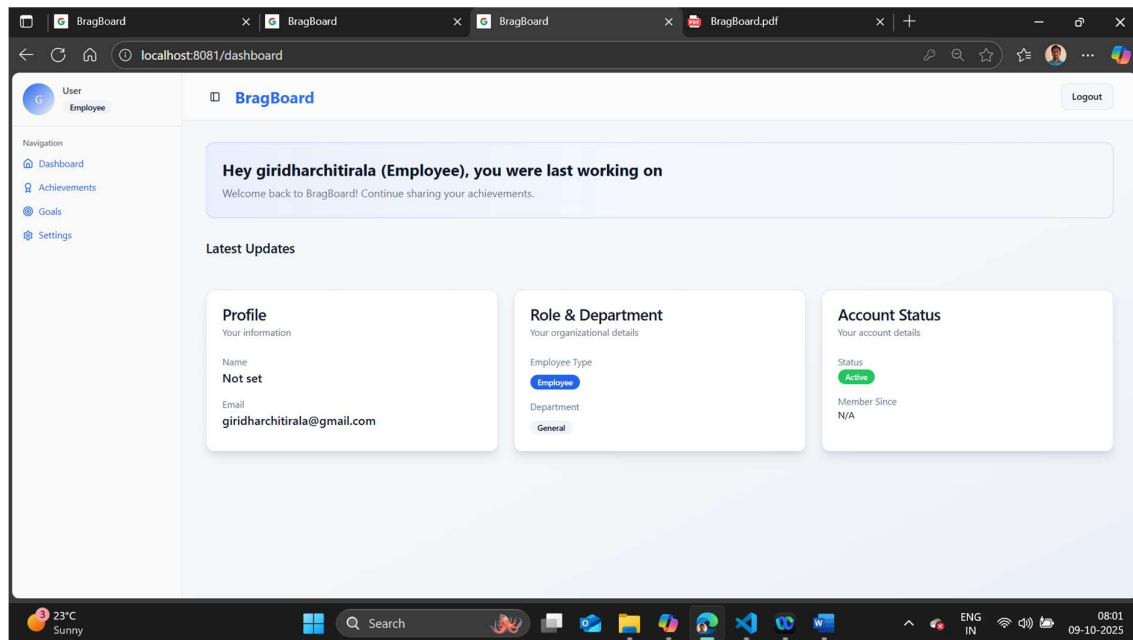
Email authentication using supabase connected for security login in below picture...



When conformed the mail after directly sign in page open or link to refreshed: -



Main dashboard of page and side bar and articles etc are included:-



These all are the pictures of signup,sign in, dash board all...

Summary of project week 2:-

Tailwind CSS accelerated layout development but required careful layering and responsive tuning.

- JWT-based auth worked well but needed precise token handling and route protection.
- Department-wise scoping added a critical layer of data security and access control.
- Debugging was focused on layout quirks, auth flow, and backend filtering logic.

Thank you for your guidance mam,

C.Giridhar.